

WHAT IS CLAIMED IS:

1 1. A device intended to be worn by a user for connecting a
2 catheter of the user to a fill-drain tube for performing an exchange of dialysis fluid,
3 the device comprising:

4 a pouch having an interior formed by connected front and back sides,
5 the front side of the pouch having an exposeable opening for inserting a fill-drain
6 tube into the interior of the pouch, the back side of the pouch having an exposeable
7 opening for inserting a catheter into the interior of the pouch.

1 2. The device of claim 1 further comprising:

2 at least one internally disposed hand covering element in
3 communication with the exterior of the pouch for receiving at least one of the user's
4 hands in order to enable the user to connect the catheter to the fill-drain tube within
5 the interior of the pouch for performing an exchange of dialysis fluid.

1 3. The device of claim 2 wherein:

2 the at least one internally disposed hand covering element includes
3 a pair of mittens.

1 4. The device of claim 1 further comprising:

2 a fill-drain tube sleeve connected to the exposeable opening of the
3 front side of the pouch and extending into the interior of the pouch for receiving the
4 fill-drain tube when the fill-drain tube is inserted into the interior of the pouch.

1 5. The device of claim 1 further comprising:

2 a catheter sleeve connected to the exposeable opening of the back side
3 of the pouch and extending into the interior of the pouch for receiving the catheter
4 when the catheter is inserted into the interior of the pouch.

1 6. The device of claim 1 wherein:

2 the exposeable openings of the front and back sides of the pouch
3 include peel away seals.

1 7. The device of claim 1 further comprising:
2 attachment means connected to the pouch for attaching the pouch to
3 the user.

1 8. The device of claim 7 wherein:
2 the attachment means include a pair of strings connected to at least
3 one of the front and back sides of the pouch for attaching the pouch to the user.

1 9. The device of claim 7 wherein:
2 the attachment means include an adhesive attached to the back side
3 of the pouch.

1 10. The device of claim 9 wherein:
2 the adhesive is positioned around the exposeable opening of the back
3 side of the pouch.

1 11. The device of claim 1 further comprising:
2 a catheter clamp connected to one of the front and back sides of the
3 pouch within the interior of the pouch.

1 12. The device of claim 1 wherein:
2 the exposeable openings each include a peel away covering element.

1 13. The device of claim 1 wherein:
2 the pouch includes plastic.

1 14. A device intended to be worn by a user for connecting a catheter
2 connected to a user to a fill-drain tube for performing an exchange of dialysis fluid,
3 the device comprising:
4 a pouch having a closed interior, a first exposeable opening for
5 inserting a fill-drain tube from an exterior of the pouch into the interior of the

6 pouch, and a second exposeable opening for inserting a catheter of a user from the
7 exterior of the pouch into the interior of the pouch; and
8 an internally disposed hand covering element in communication with
9 the exterior of the pouch for receiving a hand of the user in order to enable the user
10 to connect the catheter to the fill-drain tube within the interior of the pouch for
11 performing an exchange of dialysis fluid.

1 15. The device of claim 14 further comprising:
2 an adhesive positioned around the periphery of the second exposeable
3 opening for attaching the pouch to the user by attaching the second exposeable
4 opening to the user's abdomen around the catheter connected to the user.

1 16. The device of claim 14 further comprising:
2 a fill-drain tube sleeve connected to the first exposeable opening and
3 extending into the interior of the pouch for receiving the fill-drain tube when the fill-
4 drain tube is inserted into the interior of the pouch; and
5 a catheter sleeve connected to the second exposeable opening and
6 extending into the interior of the pouch for receiving the catheter when the catheter
7 is inserted into the interior of the pouch.

1 17. The device of claim 16 wherein:
2 at least one of the pouch, the hand covering element, the fill-drain
3 tube, and the catheter sleeve is colored differently.

1 18. The device of claim 14 further comprising:
2 a catheter clamp positioned within the interior of the pouch for
3 clamping the catheter.

1 19. The device of claim 14 wherein:
2 the pouch and the hand covering element are colored differently.

1 20. The device of claim 14 wherein:

2 the first and second exposeable openings each include respective peel
3 away covering elements.

1 21. A device intended to be worn by a user for connecting an
2 external end of a catheter connected to a user to a first end of a fill-drain tube
3 connected at a second end to a fill bag and a drain bag for performing an exchange
4 of dialysis fluid, the device comprising:

5 a pouch having a closed interior, a first exposeable opening for
6 inserting a first end of a fill-drain tube from an exterior of the pouch into the interior
7 of the pouch, and a second exposeable opening for inserting an external end of a
8 catheter of a user from the exterior of the pouch into the interior of the pouch; and

9 a pair of hand covering elements in communication with the exterior
10 of the pouch and internally disposed into the interior of the pouch for receiving the
11 hands of the user in order to enable the user to connect the external end of the
12 catheter to the first end of the fill-drain tube within the interior of the pouch for
13 performing an exchange of dialysis fluid.

1 22. A peritoneal dialysis system for a user having a catheter, the
2 system comprising:

3 a fill bag for feeding dialysis fluid;
4 a drain bag for draining dialysis fluid;
5 a fill-drain tube connected at a first end by a Y connection to the fill
6 bag and the drain bag; and

7 a user wearable device having a closed pouch, the pouch having a
8 first exposeable opening for inserting a second end of the fill-drain tube into the
9 pouch and a second exposeable opening for inserting a catheter of a user wearing
10 the pouch into the pouch in order to enable the catheter and the second end of the
11 fill-drain tube to be connected together within the pouch by manipulation from
12 outside of the pouch.

1 23. A method for performing an exchange of used and fresh dialysis
2 fluid on a user having a catheter, the method comprising:

3 providing a closed pouch having a first exposeable opening and a
4 second exposeable opening;
5 inserting a catheter of the user into pouch through the first exposeable
6 opening;
7 inserting a fill-drain tube into the pouch through the second
8 exposeable opening; and
9 connecting the catheter to the fill-drain tube in the pouch by
10 manipulation of the catheter and the fill-drain tube from outside of the pouch.

1 24. The method of claim 23 further comprising:
2 attaching the pouch to the user after the catheter is inserted into the
3 pouch through the first exposeable opening.

1 25. The method of claim 24 wherein:
2 attaching the pouch to the user includes using an adhesive positioned
3 around the first exposeable opening on the outside of the pouch and attaching the
4 adhesive to the user around the catheter.

1 26. The method of claim 23 wherein:
2 connecting the catheter to the fill-drain tube includes using a pair of
3 hand covering elements in communication with the exterior of the pouch and
4 internally disposed into the interior of the pouch for receiving the hands of the user.

1 27. The method of claim 23 further comprising:
2 exposing the first exposeable opening prior to inserting the catheter
3 into the pouch through the first exposeable opening.

1 28. The method of claim 23 further comprising:
2 exposing the second exposeable opening prior to inserting the fill-
3 drain tube into the pouch through the second exposeable opening.

1 29. The method of claim 23 wherein:

2 providing a closed pouch further includes providing a catheter clamp
3 in the pouch, the method further comprising clamping the catheter with the catheter
4 clamp prior to connecting the catheter to the fill-drain tube.

1 30. The method of claim 29 further comprising:
2 removing the catheter clamp from the catheter after connecting the
3 catheter to the fill-drain tube.